

Title (en)
COMPOSITE MATERIAL CONTAINING ULTRA-HARD PARTICLE

Title (de)
KOMPOSITMATERIAL MIT ULTRAHARTEN PARTIKELN

Title (fr)
MATIERE COMPOSITE CONTENANT DES PARTICULES ULTRA-DURES

Publication
EP 1231288 A4 20061025 (EN)

Application
EP 00970011 A 20001023

Priority

- JP 0007403 W 20001023
- JP 30896399 A 19991029

Abstract (en)
[origin: EP1231288A1] The present invention provides a composite material with excellent wear resistance in which there is minimal fall-off of ultra-hard particles such as a diamond. The composite material includes ultra-hard particles and a hard material such as a cemented carbide. The content of the ultra-hard particles in this composite material is between 10% and 30% by volume. The ultra-hard particles are dispersed in the composite material so that the Vickers hardness of the composite material is in the range of +/-15% to that of the hard material. cBN may be used for the ultra-hard particles. <IMAGE>

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C22C 26/00

IPC 8 full level
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B22F 1/18 (2022.01 - EP KR US); **C04B 35/111** (2013.01 - EP US); **C04B 35/488** (2013.01 - EP US); **C04B 35/52** (2013.01 - EP US); **C04B 35/5607** (2013.01 - EP US); **C04B 35/565** (2013.01 - EP US); **C04B 35/575** (2013.01 - EP US); **C04B 35/58** (2013.01 - EP US); **C04B 35/58014** (2013.01 - EP US); **C04B 35/581** (2013.01 - EP US); **C04B 35/5831** (2013.01 - EP US); **C04B 35/593** (2013.01 - EP US); **C04B 35/62834** (2013.01 - EP); **C04B 35/62836** (2013.01 - EP); **C04B 35/645** (2013.01 - EP); **C04B 35/80** (2013.01 - EP US); **C09K 3/1445** (2013.01 - EP); **C22C 26/00** (2013.01 - EP KR); **C22C 29/08** (2013.01 - EP); **B22F 2005/001** (2013.01 - EP); **B22F 2999/00** (2013.01 - EP)

Citation (search report)

- [A] US 5585175 A 19961217 - BRANDRUP-WOGNSEN HELENE [SE], et al
- See references of WO 0132947A1

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